

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/09/03

Date Received: 07/01/03

Project: Metro Self Monitor, PO# M91154, F&BI 307009

Date Extracted: 07/07/03

Date Analyzed: 07/07/03

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M91154 307009-01	0.27	0.32	0.36	0.07
Method Blank	<0.05	<0.05	<0.05	<0.05

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**QUALITY ASSURANCE RESULTS
FROM TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Laboratory Code: 307026-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	<0.05	<0.05	nm	0-20
Copper	mg/L (ppm)	<0.05	<0.05	nm	0-20
Nickel	mg/L (ppm)	<0.05	0.06	nm	0-20
Zinc	mg/L (ppm)	0.09	<0.05	nm	0-20

Laboratory Code: 307026-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	Acceptance Criteria
Chromium	mg/L (ppm)	2	<0.05	92	80-120
Copper	mg/L (ppm)	2	<0.05	90	80-120
Nickel	mg/L (ppm)	4	<0.05	98	80-120
Zinc	mg/L (ppm)	2	0.09	102	80-120

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	2	101	102	80-120	1
Copper	mg/L (ppm)	2	98	102	80-120	4
Nickel	mg/L (ppm)	4	102	103	80-120	1
Zinc	mg/L (ppm)	2	104	107	80-120	3

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

July 9, 2003

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

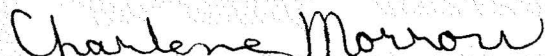
Dear Mr. Thompson:

Included are the results from the testing of material submitted on July 1, 2003 from the Metro Self Monitor, PO# M91154, F&BI 307009 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Charlene Morrow
Chemist

Enclosures
ACU0709R.DOC

307009

SAMPLE CHAIN OF CUSTODY

CM 07/01/03 AI

Send Report To G. Thompson
 Company Alaskan Copper Works
 Address 628 S. Harvard St
 City, State, ZIP Seattle WA 98134
 Phone # 206-382-8379 Fax # 206-782-4309

SAMPLER'S (signature) <u>[Signature]</u>	
PROJECT NAME/NO. <u>METRO Self Monitor</u>	PO # <u>M 91154</u>
REMARKS	

Page # _____ of _____

TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH _____

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED										Notes			
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS								
m91154	01	7/1/03	11:30	H2O	1														

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>G. Thompson</u>	<u>ACW</u>	<u>7/1/03</u>	<u>12:35pm</u>
Received by: <u>Tara E. Debraff</u>	<u>Tara E. Debraff</u>	<u>FBI</u>	<u>07/01/03</u>	<u>12:40</u>
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

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July 9, 2003

DUPLICATE COPY

INVOICE #03ACU0709-1

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M91154, F&BI 307009 - Results of testing
requested by Gerry Thompson for material submitted on July 1, 2003.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 6010B @ \$80 per sample	\$ 80.00
Amount Due	\$ 80.00

FEDERAL TAX ID # (b) (6)